Textbook Alignment to the Utah Core – 5th Grade Mathematics

This alignment has been completed using an "Independent Alignment Vendor" from the USOE approved list (www.schools.utah.gov/curr/imc/indvendor.html.) Yes X No				
Name of Company and Individual Conducting Alignment: <u>Kathleen S. Coleman; Coleman Educational Research LLC</u>				
A "Credential Sheet" has been completed on the above company/evaluator and is (Please check one of the following):				
X On record with the USOE.				
☐ The "Credential Sheet" is attached to this alignment.				
Instructional Materials Evaluation Criteria (name and grade of the core document used to align): Grade 5 M	lathematics			
Title: Scott Foresman – Addison Wesley Mathematics, c. 2008 ISBN#: 0-328-26	403-2			
Publisher:Pearson				
Overall percentage of coverage in the Student Edition (SE) and Teacher Edition (TE) of the Utah State Core	Curriculum: <u>100%</u>			
Overall percentage of coverage in <i>ancillary materials</i> of the Utah Core Curriculum: N/A %				
STANDARD I: Students will expand number sense to include integers and perform operations with whole n decimals.	umbers, simple fractions, and			
	overage not in student or teacher ered in the <i>ancillary material</i> for			

OE	BJECTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
	Objective 1.1: Represent whole numbers and decimals from thousandths to one billion, ractions, percents, and integers.			
a.	Read and write numbers in standard and expanded form.	4A-4B, 4-5, 8-10		
b.	Demonstrate multiple ways to represent whole numbers, decimals, fractions, percents, and integers using models and symbolic representations (e.g., $108 = 2 \times 50 + 8$; $108 = 102 + 8$; $90\% = 90$ out of 100 squares on a hundred chart).	4A-4B, 4-5, 8A-8B, 8-10, 14A-14B, 14- 17, 400A-400B, 400- 401, 668A-668B, 668- 669, 670A-670B, 670- 671, 712A-712B		
c.	Identify, read, and locate fractions, mixed numbers, decimals, and integers on the number line.	8A, 8, 404A404–405, 404B, 404–405, 430A, 430–431, 712A–712B, 712–715		
d.	Represent repeated factors using exponents.	17, 167		
e.	Describe situations where integers could be used in the students' environment.	712B, 712–715, 716– 717, 719		
	1.2: Explain relationships and equivalencies among integers, fractions, and percents.			
a.	Compare fractions by finding a common denominator.	418A-418B, 418-419, 420A-420B, 420-423		

b.	Order integers, fractions (including mixed numbers), and decimals using a variety of methods, including the number line.	420A–420B, 420–423, 713–715	
c.	Rewrite mixed numbers and improper fractions from one form to the other and represent each using regions, sets of objects, or line segments.	400A-400B, 400-401	
d.	Represent commonly used fractions as decimals and percents in a variety of ways (e.g., models, fraction strips, pictures, calculators, algorithms).	426-429, 430–431, 668A–668B, 668–669	
e.	Model and calculate equivalent forms of a fraction (including simplest form).	410A-410B, 410-411, 412A-412B, 412-413, 416A-416B, 416-417	
f.	Rename whole numbers as fractions with different denominators (e.g., $5 = 5/1$, $3 = 6/2$, $1 = 7/7$).	401, 410B	
	1.3: Use number theory concepts to develop and use divisibility tests; classify mbers to 50 as prime, composite, or neither; and find common multiples and		
a.	Identify patterns with skip counting and multiples to develop and use divisibility tests for determining whether a whole number is divisible by 2, 3, 5, 6, 9, and 10.	162A–162B, 162–163	
b.	Use strategies for classifying whole numbers to 50 as prime, composite, or neither.	164A–164B, 164–167	
c.	Rewrite a composite number between 2 and 50 as a product of only prime numbers.	164A, 165–167	

a.	Represent division-with-remainder using whole numbers, decimals, or fractions.	152A-152B, 153-155,	
a.	Represent division-with-remainder using whole numbers, decimals, or fractions.	156B, 156–157, 158–	ĺ
		159, 168B, 168–169	l
b.	Describe the effect of place value when multiplying and dividing whole numbers and decimals by 10, 100, and 1,000.	84A–84B, 84–85	
c.	Model multiplication of fractions and decimals (e.g., tenths multiplied by tenths, a whole number multiplied by tenths, or a whole number with tenths multiplied by tenths) in a variety of ways (e.g., manipulatives, number line and area models, patterns).	88A-88B, 88-91, 92A-92B, 92-93, 94A-94B, 94-97, 490A-490B, 490-493, 496A-496B, 496-499, 500A-500B, 500-501,	
		502A-502B, 502-503	
tive	1.5: Solve problems involving one or two operations. Determine when it is appropriate to use estimation, mental math strategies, paper	22A-22B, 22-25,	

	(continued)	136A-136B, 136- 137, 138A-138B, 138-141, 152A- 152B, 152-155, 156A-156B, 156- 157, 161, 162B, 164B, 168B, 172B, 180B, 202A-202B, 202-203, 204A- 204B, 204-207, 214A-214B, 214- 217, 221, 222B, 230A-230B, 230- 231, 234B, 262B, 273, 276B, 305, 342B, 352B, 412B, 414B, 426B, 464B, 465, 474A-474B, 474-475, 477, 481, 492, 494A-494B, 494-495, 497, 530, 552B, 562B, 563, 615, 617, 650, 651, 670A-670B, 670- 671, 672A-672B, 672-673, 702B	
b.	Make reasonable estimations of fraction and decimal sums, differences, and products, including knowing whether results obtained using a calculator are reasonable.	29–30, 86A–86B, 86– 87, 474A–474B, 474– 475, 494A–494B, 494–	
c.		495 226A–226B, 226–227	

d.	Interpret division-with-remainder problems as they apply to the environment (e.g., If there are 53 people, how many vans are needed if each van holds 8 people?).	168A-168B, 168-169	
numbers a	1.6: Demonstrate proficiency with multiplication and division of whole and compute problems involving addition, subtraction, and multiplication of and fractions.		
a.	Multiply multi-digit whole numbers by a two-digit whole number with fluency, using efficient procedures.	72A–72B, 72–75, 76A–76B, 76–77	
b.	Divide multi-digit dividends by a one-digit divisor with fluency, using efficient procedures.	136A-136B, 136-137, 148A-148B, 148-151, 152A-152B, 152-155, 156A-156B, 156-157, 200I, 214A-214B, 214-216, 218A-218B, 218-221	
c.	Add and subtract decimals with fluency, using efficient procedures.	2J, 38A–38B, 38–39, 40A–40B, 40–41	
d.	Add and subtract fractions with fluency.	458J, 460A–460B, 460–461, 462A–462B, 462–463, 466A–466B, 466–468,	
e.	Multiply fractions.	490A-490B, 490-491, 496A-496B, 496-499, 502A-502B, 504A- 504B, 504-505	

Percentage of coverage in the <i>student and teacher edition</i> for Standard II: 100% Percentage of coverage not in student or teacher edition, but covered in the <i>ancillary material</i> for Standard II: N/A %				
O	BJECTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✔
•	2.1: Identify, analyze and determine a rule for predicting and extending patterns involving operations whole numbers, decimals, and fractions. Analyze and make predictions about numeric patterns, including decimals and fractions.	14A-14B, 14-17, 66-67, 84B, 84-85, 106A-106B, 106-107, 136A-136B, 136-137, 142-143, 144A-144B, 144-145, 202		
b.	Determine a rule for the pattern using organized lists, tables, objects, and variables.	14A-14B, 14-17, 66-67, 84B, 84-85, 106A-106B, 106-107, 136A-136B, 136-137, 142-143, 144A-144B, 144-145, 202		

a.	Use properties and the order of operations involving addition, subtraction, multiplication, division, and the use of parentheses to compute with whole numbers, decimals, and fractions.	22B, 22–25, 66A– 66B, 66–67, 70A– 70B, 70–71, 172A– 172B, 172–173		
b.	Use patterns, models, and relationships as contexts for writing and solving simple equations and inequalities with whole number solutions (e.g., $6x = 54$; $x + 3 = 7$).	108B, 108–109, 137 700B, 700–701, 702 703, 704–705		
	ARD III: Students will use spatial reasoning to recognize, describe, and analyz ercentage of coverage in the student and teacher edition for	Percentage of cover		or teacher
Pe		Percentage of cover edition, but covered Standard III: N/A %	age not in student of in the ancillary ma	
Po St	ercentage of coverage in the student and teacher edition for	Percentage of cover edition, but covered	age not in student of in the ancillary ma	
Po St	ercentage of coverage in the <i>student and teacher edition</i> for tandard III: 100%	Percentage of cover edition, but covered Standard III: N/A % Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s,	age not in student of in the ancillary ma	Not covered in TE, SE or

b.	Draw, label, and define an angle as two rays sharing a common endpoint (vertex).	328A-328B, 328- 331, 332A-332B, 332-335	
c.	Classify triangles and quadrilaterals and analyze the relationships among the shapes in each classification (e.g., a square is a rectangle).	342A-342B, 342- 345, 346A-346B, 346-351	
d.	Relate pyramids and right prisms to the two-dimensional shapes (nets) from which they were created.	598A-598B, 598- 601	
e.	Identify properties and attributes of solids (i.e., right prisms, pyramids, cylinders, cones) and describe them by the number of edges, faces, and vertices as well as the types of faces.	594A–594B, 594– 597	
Objective	3.2: Specify locations in a coordinate plane.		
a.	Locate points defined by ordered pairs of integers.	174A–174B, 174– 175, 724A–724B, 724–727	
b.	Write an ordered pair for a point in a coordinate plane with integer coordinates.	174A–174B, 174– 175, 724A–724B, 724–727	
c.	Specify possible paths between locations on a coordinate plane and compare distances of the various paths.	These pages can be used to introduce this objective. 174A–174B, 174–175, 724A–724B, 724–727	

Percentage of coverage in the <i>student and teacher edition</i> for standard IV: 100%		Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard IV: N/A %		
C	OBJECTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
jective	4.1: Determine the area of polygons and apply to real-world problems.			
a.	Determine the area of a trapezoid by the composition and decomposition of rectangles, triangles, and parallelograms.	These pages can be used to introduce this objective. 548A–548B, 548–549, 550A–550B, 550–551		
b.	Determine the area of irregular and regular polygons by the composition and decomposition of rectangles, triangles, and parallelograms.	These pages can be used to introduce this objective. 550A-550B, 550-551, 554A-554B,		
		554–557		

a.	Quantify volume by finding the total number of same-sized units of volume	592J, 610A–610B,		
	needed to fill the space without gaps or overlaps.	610–611		
b.	Recognize that a cube having a 1 unit edge is the standard unit for measuring	592J, 610A–610B,		
	volume expressed as a cubic unit.	610–611		
c.	Derive and use the formula to determine the volume of a right prism with a	These pages can be		
	triangular or rectangular base.	used to introduce this		
		objective.		I
	Delete the fermion for the areas of triangles, restangles, as recalled around to the	610A-610B, 610-613		
d.	Relate the formulas for the areas of triangles, rectangles, or parallelograms to the surface area of a right prism.	602A-602B, 602-603		
e.	Derive and use the formula to determine the surface area of a right prism and express surface area in square units.	602A-602B, 602-603		
	ARD V: Students will construct, analyze, and construct reasonable conclusions and ge of coverage in the student and teacher edition for	Percentage of coverage	not in student or te	acher edition
Percenta		Percentage of coverage covered in the ancillar	y <i>material</i> for Standa	ard V:
ercenta tandard	ge of coverage in the <i>student and teacher edition</i> for d V: 100%	Percentage of coverage covered in the ancillar Coverage in Student	y material for Standa Coverage in	Not covered
ercenta tandard	ge of coverage in the student and teacher edition for	Percentage of coverage covered in the ancillar	y <i>material</i> for Standa	ard V:
ercenta tandard O	ge of coverage in the <i>student and teacher edition</i> for d V: 100%	Percentage of coverage covered in the ancillar Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.) 260A-260B, 260-261, 262A-262B, 262-265, 266A-266B, 266-269,	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or
ercenta andard O jective a, and	ge of coverage in the student and teacher edition for d.V: 100% BJECTIVES & INDICATORS 5.1: Formulate and answer questions using statistical methods to compare propose and justify inferences based on data. Construct, analyze, and display data using an appropriate format (e.g., line plots,	Percentage of coverage covered in the ancillar Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.) 260A-260B, 260-261, 262A-262B, 262-265, 266A-266B, 266-269, 270A-270B, 270-273, 274-275, 276A-276B,	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or
ercenta tandard O ojective ta, and	ge of coverage in the student and teacher edition for d.V: 100% BJECTIVES & INDICATORS 5.1: Formulate and answer questions using statistical methods to compare propose and justify inferences based on data. Construct, analyze, and display data using an appropriate format (e.g., line plots,	Percentage of coverage covered in the ancillar Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.) 260A-260B, 260-261, 262A-262B, 262-265, 266A-266B, 266-269, 270A-270B, 270-273, 274-275, 276A-276B, 276-279, 286A-286B,	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or
Percenta Standard O bjective	ge of coverage in the student and teacher edition for d.V: 100% BJECTIVES & INDICATORS 5.1: Formulate and answer questions using statistical methods to compare propose and justify inferences based on data. Construct, analyze, and display data using an appropriate format (e.g., line plots,	Percentage of coverage covered in the ancillar Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.) 260A-260B, 260-261, 262A-262B, 262-265, 266A-266B, 266-269, 270A-270B, 270-273, 274-275, 276A-276B, 276-279, 286A-286B, 286-287, 288A-288B,	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or
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b.	Recognize the differences in representing categorical and numerical data.	These pages can be used to introduce this objective. 260A–260B, 260–261	
c.	Identify minimum and maximum values for a set of data.	270A-270B, 270-273, 282A-282B, 282-285	
d.	Identify and calculate the mean, median, mode, and range.	270A–270B, 270–273, 282A–282B, 282–285	
Objective	5.2: Apply basic concepts of probability.		
a.	Describe the results of experiments involving random outcomes using a variety of notations (e.g., 4 out of 9, 4/9).	302A-302B, 302-304	
b.	Recognize that probability is always a value between 0 and 1 (inclusively).	302A-302B, 302-304	
c.	Express the likelihood of an outcome in a simple experiment as a value between 0 and 1 (inclusively).	302A-302B, 302-304	